Please amend page 14, line 1 as follows:

Claims What is claimed is:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.

1. (Original) A process for the production of an [¹⁸F]fluorohaloalkane which comprises treatment of a solid support-bound precursor of formula (I):

SOLID SUPPORT-LINKER-SO₂-O
$$-(CH_2)_nX$$
 (I)

wherein n is an integer of from 1 to 7 and X is chloro, bromo or iodo; with $^{18}F^{-}$ to produce the $[^{18}F]$ fluorohaloalkane of formula (II)

$$^{18}F-(CH_2)_n-X$$
 (II)

wherein n and X are as defined for the compound of formula (I), optionally followed by (i) removal of excess ¹⁸F⁻, for example by ion-exchange chromatography; and/or (ii) removal of organic solvent.

- 2. (Original) A process for the production of an [18F]fluorohaloalkane according to claim 1 wherein n is an integer of 1 to 4, preferably 1 or 2.
- 3. (Currently amended) A process for the production of an [¹⁸F]fluorohaloalkane according to claim 1 or 2 wherein the compound of formula (II) prepared is selected from [¹⁸F]fluorobromomethane, [¹⁸F]fluoroiodomethane, [¹⁸F]fluoroiodoethane, [¹⁸F]fluoroiodopropane
- 4. (Original) A compound of formula (I) as defined in claim 1:

wherein n is an integer of from 1 to 7 and X is chloro, bromo or iodo.

- 5. (Original) A compound of formula (I) according to claim 4 wherein n is an integer of from 1 to 4, and is preferably 1 or 2.
- 6. (Currently amended) A radiosynthesis kit for the preparation of an [¹⁸F]fluorohaloalkane for use in PET chemistry, which comprises:
- (i) a vessel containing a compound of formula (I) as defined in any one of claims 1-to 3 claim 1; and
- (ii) means for eluting the vessel with a source of ¹⁸F⁻; and
- (iii) an ion-exchange cartridge for removal of excess ¹⁸F⁻.
- 7. A cartridge for a radiosynthesis kit which comprises:
- (i) a vessel containing a compound of formula (I) as defined in any one of claims 1 to 3 claim1; and
- (ii) means for eluting the vessel with a source of ¹⁸F.